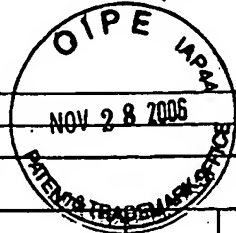


Information Disclosure Statement by Applicant (PTO/SB/O8)



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Complete if Known

Application No.: 10/721,216
Filing Date: November 26, 2003
First Named Inventor: Ralph E. BURNS
Group Art Unit: 1743
Examiner Name: Jill A. Warden
Attorney Docket No.: 2599-104-C4
Customer No.: 6449
Confirmation No.: 6271

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
KB	1	4,699,767		AIHARA	10-13-1987
	2	4,849,176		SAKAGAMI	07-18-1989
	3	4,906,433		MINEKANE	03-06-1990
	4	5,089,233		DEVANEY et al.	02-18-1992
	5	5,154,888		ZANDER et al.	10-13-1992
	6	5,213,761		SAKAGAMI	05-25-1993
	7	5,229,297		SCHNIPELSKY et al.	07-20-1993
	8	5,288,463		CHEMELLI	02-22-1994
	9	5,340,747		FOLEN	08-23-1994
	10	5,374,395		ROBINSON et al.	12-20-1994
	11	5,422,271		CHEN et al.	06-06-1995
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	15	5,578,270		REICHLER et al.	11-26-1996
	16	5,827,653		SAMMES et al.	10-27-1998
	17	6,043,880		ANDREWS et al.	03-28-2000
↓	18	6,103,193		IWAHASHI et al.	08-15-2000
	19	6,146,592		KAWASHIMA	11-14-2000
KB	20	6,277,332		SUCHOLEIKI	08-21-2001
Examiner Signature	/P. Kathryn Bex/			Date Considered	02/22/2007

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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
KB	21	6,335,166		AMMANN et al.	01-01-2002
	22	6,517,782		HORNER et al.	02-11-2003
	23	6,517,783		HORNER et al.	02-11-2003
	24	6,586,234	B1	BURG et al.	07-01-2003
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	29	6,943,029		COPELAND et al.	09-13-2005
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	33	2002/0064867	A1	CLARK et al.	05-30-2002
	34	2002/0086417	A1	CHEN et al.	07-04-2002
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KB	41	2004/0076983	A1	KARISEN	04-22-2004
KB	42	2004/0115796	A1	BURNS	06-17-2004
KB	43	2005/0130198	A1	AMMANN et al.	06-16-2005
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		Office ³	Number ⁴	Kind ⁵ Code (if known)			
KB	44	EP	0293782	A1	Sumitomo Electric Industries	12-07-1988	
	45	EP	0336309	A2	Poli-Mak Spa	10-11-1989	
	46	EP	0409126	A2	Hitachi, LTD.	01-23-1991	
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	48	EP	0458138	A2	Technicon Instruments Corp.	11-27-1991	
	49	EP	0525577	A2	E.I. Dupont De Nemours and Co.	02-03-1993	
	50	EP	0542422	A1	Gen Atomics	05-19-1993	
	51	EP	0569214	A2	Wallac Oy	11-10-1993	
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	53	EP	0640828	B1	Ammann Patent Anwaelte AG Bern	03-01-1995	
	54	EP	1024355	A1	Tosoh Corp.	08-02-2000	
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	Examiner Name:	Jill A. Warden
	Attorney Docket No.:	2599-104-C4
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
KB	56	BOWIE et al., "α-Thalassemia Subtyping the the Detection of Silent Mutations by High-Resolution Fragment Analysis and DNA Sequencing", Mol. Diagn., 3: 43-53 (March 1998)	
↓	57	KRISTENSEN et al., "High-Throughput Screening for Known Mutations by Automated Analysis of Single Sequencing Reactions", BioTechniques, 24: 832-835 (May 1998)	
↓	58	LEONARD et al., "Preparation of PCR Products for DNA Sequencing", BioTechniques, 24: 314-317 (February 1998)	
↓	59	SCHMITZ et al., "Recent Advances in Molecular Genetics of Cardiovascular Disorders - Implications for Atherosclerosis and Diseases of Cellular Lipid Metabolism", Pathol. Oncol. Res. 4: 153-161 (1998)	
↓ KB	60	WU et al., "Strategies for Unambiguous Detection of Allelic Heterozygosity via Direct DNA Sequencing of PCR Products: Application to the HLA DRB1 Locus", Mol. Diagn., 1: 89-98 (June 1996)	
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Group Art Unit	
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U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)		
KB	1	6,165,778		KEDAR	12-26-2000
	2	6,143,578		BENDELE	11-07-2000
	3	6,117,392		HANAWA et al.	09-12-2000
	4	6,117,398		BIENHAUS et al.	09-12-2000
	5	6,117,683		KODAMA et al.	09-12-2000
	6	5,750,338		COLLINS et al.	05-12-1998
	7	6,033,880		HAFF et al.	03-07-2000
	8	6,096,272		CLARK et al.	08-01-2000
	9	6,110,678		WEISBERG et al.	08-29-2000
KB	10	6,027,691		WATTS et al.	02-22-2000

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
KB	11	DE	G9405224.7		KODAK AG	05-26-1994	
	12	EP	0 628 824	A1	ORTHO DIAGNOSTIC SYSTEMS, INC.	12-14-1994	
	13	WO	93/03383		E.I. DU PONT DE NEMOURS AND COMPANY	02-18-1993	
	14	EP	0502638	A2	CIBA CORNING DIAGNOSTICS CORP	09-09-1992	
KB	15	WO	93/25912		MEDICAL RESEARCH COUNCIL	12-23-1993	

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		Number	Kind Code ² (if known)		
KB	16	5,571,325		UEYAMA et al.	11-05-1996
	17	5,826,129		HASEBE et al.	10-20-1998
	19	6,051,101		OHTANI et al.	04-18-2000
	19	6,033,574		SIDDIQI	03-07-2000
	20	5,948,691		EKIRIWANG et al.	09-07-1999
	21	5,985,670		MARKIN	11-16-1999
	22	5,985,671		LEISTNER et al.	11-16-1999
	23	5,985,672		KEGELMAN et al.	11-16-1999
	24	5,998,201		MAES et al.	12-07-1999
KB	25	5,470,744		ASTLE	11-28-1995

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		Office ³ Code	Number ⁴	Kind ⁵ (if known)			
KB	26	EP	0 136 126	A2	CORNING GLASS WORKS	04-03-1985	
	27	JP	63003265		TOKYO SHIBAURA ELECTRIC CO	03-06-1990	AB
	28	GB	2 131 168		JAPAN ELECTRON INSTRUMENTS CORPORATION	06-13-1984	
	29	EP	0 513 618		MILES INC.	11-19-1992	
KB	30	EP	0 171 140	A2	UNIVERSITY OF TOKYO	02-12-1986	

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	32	4,170,625		WELCH	10-09-979
	33	4,895,650		WANG	01-23-1990
	34	5,482,861		CLARK et al.	01-09-1996
	35	Re. 31,108		GINSBERG et al.	12-21-1982
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	37	749,104		SCHOENEFELDT	01-05-1904
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KB	41	3,565,582		YOUNG	02-23-1971
	42	3,644,095		NETHELER et al.	02-22-1972
	43	3,676,076		GRADY	07-11-1972
	44	3,754,444		URE et al.	08-23-1973
	45	3,883,305		HOSKINS et al.	05-13-1975
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	47	4,039,288		MORAN	08-02-1977
	48	4,054,415		SELIGSON et al.	10-18-1977
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KB	51	4,235,840		MENDOZA et al.	11-25-1980
	52	4,268,477		HERZSTARK	05-19-1981
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	54	4,298,571		DIFULVIO et al.	11-03-1981
	55	4,305,668		BILBREY	12-15-1981
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	57	4,315,891		SAKURADA	02-16-1982
	58	4,344,768		PARKER et al.	08-17-1982
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KB	60	4,366,119		TAKEUCHI	12-28-1982

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	65	4,483,823		UMETSU et al.	11-20-1984
	66	4,483,927		TAKEKAWA	11-20-1984
	67	4,497,774		SCORDATO	02-05-1985
	68	4,501,164		STOCKDALE et al.	02-26-1985
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KB	70	4,595,562		LISTON et al.	06-17-1986

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Application Number	10/721,216
Filing Date	November 26, 2003
First Named Inventor	Ralph BURNS
Group Art Unit	
Examiner Name	
Attorney Docket Number	2599-104-C4
Customer No.	6449

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		Number	Kind Code ² (if known)		
KB	71	4,612,289		FURUTA et al.	09-16-1986
	72	4,647,432		WAKATAKE	03-03-1987
	73	4,678,752		THORNE et al.	07-07-1987
	74	4,695,430		COVILLE et al.	09-22-1987
	75	4,699,766		YAMASHITA	10-13-1987
	76	4,731,225		WAKATAKE	03-15-1988
	77	4,747,693		KAHL	05-31-1988
	78	4,761,268		ANDERSEN et al.	08-02-1988
	79	4,764,342		KELLN et al.	08-16-1988
KB	80	4,774,055		WAKATAKE et al.	09-27-1988

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		Number	Kind Code ² (if known)		
KB	81	4,781,891		GALLE	11-01-1988
	82	4,834,944		WAKATAKE	05-30-1989
	83	4,844,868		ROKUGAWA	07-04-1989
	84	4,848,917		BENIN et al.	07-18- 1989
	85	4,855,110		MARKER et al.	08-08-1989
	86	4,865,986		COY et al.	09-12-1989
	87	4,883,644		PERLMAN	11-28-1989
	88	4,908,186		SAKAMAKI	03-13-1990
	89	4,908,320		ZAKOWSKI et al.	03-13-1990
KB	90	4,919,887		WAKATAKE	04-24-1990

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		Number	Kind Code ² (if known)		
KB	91	4,961,906		ANDERSEN et al.	10-09-1990
	92	4,965,049		LILLIG et al.	10-23-1990
	93	5,051,238		UMETSU et al.	09-24-1991
	94	5,084,242		SAKUMA et al.	01-28-1992
	95	5,104,231		COLLIER et al.	04-14-1992
	96	5,104,621		PFOST et al.	04-14-1992
	97	5,104,807		MITSUMAKI et al.	04-14-1992
	98	5,104,808		LASKA et al.	04-14-1992
	99	5,122,343		ISHIZAKA et al.	06-16-1992
KB	100	5,128,103		WANG et al.	07-07-1992

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KB	101	5,139,743		ISHIZAKA et al.	08-18-1992
	102	5,141,871		KURESHY et al.	08-25-1992
	103	5,147,610		WATANABE et al.	09-15-1992
	104	5,154,889		MURAISHI	10-13-1992
	105	5,167,448		HEROLD et al.	12-01-1992
	106	5,183,638		WAKATAKE	02-02-1993
	107	5,186,827		LIBERTI et al.	02-16-1993
	108	5,192,505		SAKAGAMI	03-09-1993
	109	5,192,506		KURESHY et al.	03-09-1993
KB	110	5,207,987		KURESHY et al.	05-04-1993

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		Number	Kind Code ² (if known)		
KB	111	5,215,714		OKADA et al.	06-01-1993
	112	5,240,678		LITSCHKE	08-31-1993
	113	5,240,679		STETTLER	08-31-1993
	114	5,246,665		TYRANSKI et al.	09-21-1993
	115	5,260,028		ASTLE	11-09-1993
	116	5,270,210		WEYRAUCH et al.	12-14-1993
	117	5,277,871		FUJI et al.	01-11-1994
	118	5,294,404		GRANDONE et al.	03-15-1994
	119	5,314,663		MIMURA	05-24-1994
	120	5,314,825		WEYRAUCH et al.	05-24-1994
	121	5,316,726		BABSON et al.	05-31-1994
KB	122	5,318,914		MATTE et al.	06-07-1994

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KB	123	5,320,809		DUNN et al.	06-14-1994
	124	5,320,966		MITSUMAKI et al.	06-14-1994
	125	5,324,481		DUNN et al.	06-28-1994
	126	5,332,549		MACINDOE, JR.	07-26-1994
	127	5,358,691		CLARK et al.	10-25-1994
	128	5,360,741		HUNNELL	11-01-1994
	129	5,380,666		WUERSCHUM	01-10-1995
	130	5,384,094		SCHACHER	01-24-1995
	131	5,415,839		ZAUN et al.	05-16-1995
↓	132	5,415,840		SANO et al.	05-16-1995
	133	5,419,871		MUSZAK et al.	05-30-1995
KB	134	5,424,212		PINSL-OBER et al.	06-13-1995

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KB	135	5,434,083		MITSUMAKI et al.	07-18-1995
	136	5,439,646		TANIMIZU et al.	08-08-1995
	137	5,445,794		WIHLBORG	08-29-1995
	138	5,451,528		RAYMOURE et al.	09-19-1995
	139	5,466,574		LIBERTI et al.	11-14-1995
	140	5,482,839		ASHIHARA et al.	01-09-1996
	141	5,525,300		DANSSAERT et al.	06-11-1996
	142	5,536,475		MOUBAYED et al.	07-16-1996
	143	5,558,839		MATTE et al.	09-24-1996
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	145	5,571,481		POWELL et al.	11-05-1996
KB	146	5,575,976		CHOPERENA et al.	11-19-1996

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	149	5,580,524		FORREST et al.	12-03-1999
	150	5,585,068		PANETZ et al.	12-17-1996
	151	5,587,129		KUROSAKI et al.	12-24-1996
	152	5,595,707		COPELAND et al.	01-21-1997
	153	5,599,501		CAREY et al.	02-04-1997
	154	5,605,665		CLARK et al.	02-25-1997
	155	5,610,069		CLARK et al.	03-11-1997
	156	5,620,898		YAREMOKO et al.	04-15-1997
	157	5,635,364		CLARK et al.	06-03-1997
KB	158	5,637,275		CAREY et al.	06-10-1997

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	160	5,646,049		TAYI	07-08-1997
	161	5,653,940		CAREY et al.	08-05-1997
	162	5,658,799		CHOPERENA et al.	08-19-1997
	163	5,670,114		SAKAZUME et al.	09-23-1997
	164	5,670,120		DEGENHARDT et al.	09-23-1997
	165	5,677,188		MITSUMAKI et al.	10-14-1997
	166	5,679,309		BELL	10-21-1997
	167	5,681,530		KUSTER et al.	10-28-1997
	168	5,693,292		CHOPERENA et al.	12-02-1997
	169	5,698,450		RINGROSE et al.	12-16-1997
KB	170	5,702,950		TAJIMA	12-30-1997

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	172	5,720,923		HAFF et al.	02-24-1998
	173	5,730,938		CARBONARI et al.	03-24-1998
	174	5,730,939		KURUMADA et al.	03-24-1998
	175	5,736,105		ASTLE	04-07-1998
	176	5,738,827		MARQUISS	04-14-1998
	177	5,741,461		TAKAHASHI et al.	04-21-1998
	178	5,746,977		IMAI et al.	05-05-1998
	179	5,762,872		BUHLER et al.	06-09-1998
	180	5,762,873		FANNING et al.	06-09-1998
	181	5,773,662		IMAI et al.	06-30-1998
KB	182	5,779,981		DANSSAERT et al.	07-14-1998

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				Filing Date	November 26, 2003
				First Named Inventor	Ralph BURNS
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	2599-104-C4
				Customer No.	6449
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Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
KB	183	5,786,182		CATANZARITI et al.	07-28-1998
	184	5,789,252		FUJITA et al.	08-04-1998
	185	5,795,547		MOSER et al.	08-18-1998
	186	5,806,523		WATTS et al.	09-15-1998
	187	5,814,277		BELL et al.	09-29-1998
	188	5,827,478		CAREY et al.	10-27-1998
	189	5,827,479		YAMAZAKI et al.	10-27-1998
	190	5,843,376		ISHIHARA et al.	12-01-1998
	191	5,846,491		CHOPERENA et al.	12-08-1998
✓	192	5,849,247		UZAN et al.	12-15-1998
	193	5,855,847		OONUMA et al.	01-05-1999
KB	194	5,863,506		FARREN	01-26-1999

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		Number	Kind Code ² (if known)		
KB	195	5,876,668		KAWASHIMA et al.	03-02-1999
	196	5,882,596		BREESER et al.	03-16-1999
	197	5,882,918		GOFFE	03-16-1999
	198	5,885,353		STRODTBECK et al.	03-23-1999
	199	5,773,268		KORENBERG et al.	06-30-1998
	200	5,656,493		MULLIS et al.	08-12-1997
	201	5,714,380		NERI et al.	02-03-1998
	202	6,042,786		OONUMA et al.	03-28-2000
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	204	5,232,669	A	PARDINAS	08-03-1993
	205	5,306,510	A	MELTZER	04-26-1994
KB	206	5,443,791	A	CATHCART et al.	08-22-1995

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		Number	Kind Code ² (if known)		
KB	207	5,582,796	A	CAREY et al.	12-10-1996
	208	5,988,869	A	DAVIDSON et al.	11-23-1999
	209	6,086,827	A	HORNER et al.	07-11-2000
	210	5,389,339		PETSCHEK et al.	02-14-1995
	211	6,056,923		DIAMOND et al.	05-02-2000
	212	5,401,465		SMETHERS et al.	03-28-1995
	213	5,885,530		BABSON et al.	03-23-1999
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	216	5,716,583		SMETHERS et al.	02-10-1998
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		Number	Kind Code ² (if known)		
KB	219	5,139,745		BARR et al.	08-18-1992
	220	4,291,230		HEISS	09-22-1981
	221	5,082,628		ANDREOTTI et al.	01-21-1992
	222	5,043,141		WILSON et al.	08-27-1991
	223	5,447,687		LEWIS et al.	09-05-1995
	224	6,436,349	B1	CAREY et al.	08-20-2002
	225	6,377,342	B1	COEURVILLE	04-23-2002
KB	226	4,647,199		FERBER et al.	03-03-1987

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee of Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁶
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Examiner Name	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
KB	227	VAN GEMEN et al., "The One-tube Quantitative HIV-1 RNA NASBA: Precision, Accuracy, and Application", PCR Methods and Applications, 4:S177-S184 (Cold Spring Harbor Laboratory 1994)	

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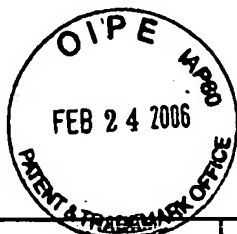
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Application Number	10/721,216
Filing Date	November 26, 2003
First Named Inventor	Ralph BURNS
Group Art Unit	1634
Examiner Name	Frank Wei Min LU
Attorney Docket Number	2599-104-C4
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U.S. PATENT DOCUMENTS

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		Number	Kind Code ² (if known)		
KB	1	2,313,045		Edward A. Brown	03-09-1943
	2	4,871,676		Yamada	10-03-1989
	3	5,075,079		Kerr, et al.	12-24-1991
	4	5,167,448		Herold, et al.	12-01-1992
	5	5,250,261		Porte	10-05-1993
	6	5,254,315		Nurse, et al.	10-19-1993
KB	7	5,346,303		Heinonen, et al.	09-13-1994

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO/SB/08				<i>Complete if Known</i>	
				Application Number	10/721,216
				Filing Date	November 26, 2003
				First Named Inventor	Ralph BURNS
				Group Art Unit	1634
				Examiner Name	Frank Wei Min LU
				Attorney Docket Number	2599-104-C4
				Customer No.	6449
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Complete if Known	
				Application Number	10/721,216
				Filing Date	November 26, 2003
				First Named Inventor	RALPH E. BURNS
				Art Unit / Conf. No.	1634 / 6271
				Examiner Name	Lu, F.
(Use as many sheets as necessary)				Attorney Docket Number	2599-104-C4
Sheet	1	of	1		

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Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
KB		US-5,746,978 A	05-05-1998	Bienhaus <i>et al.</i>	
		US-			
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Application Number	10/721,216
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Group Art Unit

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KB	1	JP	02-066461		SHIMADZU CORP	03-06-1990	AB
	2	JP	04-359154		OLYMPUS OPTICAL CO LTD	12-11-1992	AB
	3	JP	05-010957		OLYMPUS OPTICAL CO LTD	01-19-1993	AB
	4	JP	06-244663		PHILIPS ELECTRON NV	09-02-1994	AB
	5	JP	62-000863		NIPPON TECTRON CO LTD	01-06-1987	AB
KB	6	DE	4128698		BOEHRINGER MANNHEIM GMBH (DE)	03-04-1993	AB

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